CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP.

20th April 2016

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the Materials supplied by you, for the work of **'Construction of Samudaya Bhavan Building in GKVK layout of ward no 04.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

RamSanjeev AE

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Construction of Samudaya Bhavan Building in GKVK layout of ward no 04.
Name of the Agency	Sri. K. Ravi Kumar
Date of Testing	20/04/2016

Tests	**Test Method As Per IS & Apparatus**		**Results**		**Requirements As Per IS 8112:1989**	**Remarks**
	IS Code	**Method**	**Value**	**Unit**		
Initial Setting Time	**IS-4031 (Part-5) 1988**	VICAT	49	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	**IS-4031 (Part-5) 1988**	VICAT	489	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	**IS-4031 (Part-3) 1988**	LE-CHATELIER	3	mm	Not More Than 10 mm	Satisfies Requirement

Note:

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TEST REPORT

GRADATION TEST ON FINE AGGREGATES

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Construction of Samudaya Bhavan Building in GKVK layout of ward no 04.
Name of Agency	Sri. K. Ravi Kumar
Date of Testing	20/04/2016
Specific Gravity	**2.58**
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011), IS : 2386 (Part III)-1963 (Reaffirmed 2011)

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)				Grading Zone	Remarks
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV		
River Sand	10	**100**	100	100	100	100	II	Satisfies the requirement
	4.75	**99.2**	90-100	90-100	90-100	95-100		
	2.36	**88.4**	60-95	75-100	85-100	95-100		
	1.18	**76.1**	30-70	55-90	75-100	90-100		
	0.6	**49.3**	15-34	35-59	60-79	80-100		
	0.3	**26.2**	5-20	8-30	12-40	15-50		
	0.15	**8.2**	0-10	0-10	0-10	0-15		

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TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 20mm ↓ Graded

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Construction of Samudaya Bhavan Building in GKVK layout of ward no 04.
Name of Agency	Sri. K. Ravi Kumar
Date of Testing	20/04/2016
Specific Gravity	2.63
Water Absorption	0.31%
Technical Reference	IS : 2386(Part I)-1963 (Reaffirmed 2011), IS : 2386 (Part III)-1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
40	**100**	100	Satisfies the requirement
20	**98.6**	95-100	
10	**44.8**	25-55	
4.75	**7.8**	0-10	

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Quality Manager

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TEST REPORT

TESTS ON SOLID BLOCKS

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Construction of Samudaya Bhavan Building in GKVK layout of ward no 04.
Name of the Agency	Sri. K. Ravi Kumar
Date of Testing	20/04/2016
Technical Reference	IS: 2185(Part-I)-2005 (Reaffirmed 2010)
No. of samples tested	8
Grade	C (4.0)

1. COMPRESSIVE STRENGTH

Sl. No.	Nominal Dimension (cms)	Compressive strength (N/mm^2)	Minimum Compressive Strength as per IS: 2185(Part-I)-2005 (Reaffirmed 2010)	
			Individual	Avg. of 8 samples
1	40x20x20	4.4	Minimum Compressive Strength of Individual Units	Minimum Average Compressive Strength of Units
2		4.3		
3		4.2	For Grade C (5.0)- 4.0 N/mm^2 For Grade C (4.0)- 3.2 N/mm^2	For Grade C (5.0)- 5.0 N/mm^2 For Grade C (4.0)- 4.0 N/mm^2
4		4.4		
5		4.1		
6		4.3		
7		4.4		
8		4.1		
Average Compressive strength (N/mm^2)		**4.3**		

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 8 mm

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Construction of Samudaya Bhavan Building in GKVK layout of ward no 04.
Name of the Agency	Sri. K. Ravi Kumar
Date of Testing	20/04/2016
Grade of Steel	Fe - 500.

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	8	8	Satisfactory
2	Wt/m Length (Kg/m)	0.396	0.395	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.6	12	Satisfactory
5	Yield Stress(N/Sq.mm)	502	500	Satisfactory
6	U T S (N/Sq.mm)	558	545	Satisfactory

Note:

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4. The results are based on the test conducted on samples supplied by the client.

(KHUSHBOO L.)
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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 10mm

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Construction of Samudaya Bhavan Building in GKVK layout of ward no 04.
Name of the Agency	Sri. K. Ravi Kumar
Date of Testing	20/04/2016
Grade of Steel	Fe - 500.

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.618	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.1	12	Satisfactory
5	Yield Stress(N/Sq.mm)	506	500	Satisfactory
6	U T S (N/Sq.mm)	562	545	Satisfactory

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4. The results are based on the test conducted on samples supplied by the client.

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Quality Manager

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 12 mm

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Construction of Samudaya Bhavan Building in GKVK layout of ward no 04.
Name of the Agency	Sri. K. Ravi Kumar
Date of Testing	20/04/2016
Grade of Steel	Fe - 500.

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	12	12	Satisfactory
2	Wt/m Length (Kg/m)	0.889	0.888	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.4	12	Satisfactory
5	Yield Stress(N/Sq.mm)	508	500	Satisfactory
6	U T S (N/Sq.mm)	564	545	Satisfactory

Note:

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CIVIL TECH LABS (BANGALORE)

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 16 mm

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Construction of Samudaya Bhavan Building in GKVK layout of ward no 04.
Name of the Agency	Sri. K. Ravi Kumar
Date of testing	20/04/2016
Grade of Steel	Fe - 500.

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	16	16	Satisfactory
2	Wt/m Length (Kg/m)	1.59	1.58	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.9	12	Satisfactory
5	Yield Stress(N/Sq.mm)	517	500	Satisfactory
6	U T S (N/Sq.mm)	574	545	Satisfactory

Note:

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4. The results are based on the test conducted on samples supplied by the client.

Khushboo

(KHUSHBOO L.)
Quality Manager

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 20 mm

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Construction of Samudaya Bhavan Building in GKVK layout of ward no 04.
Name of the Agency	Sri. K. Ravi Kumar
Date of Testing	20/04/2016
Grade of Steel	Fe - 500.

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	20	20	Satisfactory
2	Wt/m Length (Kg/m)	2.47	2.47	Satisfactory
3	Bend & RebendTest	Pass	Should not CrackorFracture	Satisfactory
4	Elongation (%)	16.4	12	Satisfactory
5	Yield Stress(N/Sq.mm)	524	500	Satisfactory
6	U T S (N/Sq.mm)	582	545	Satisfactory

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T-2654

To,

Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP.

01st June 2016

Dear Sir,

Sub: Construction of Samudaya Bhavan Building in GKVK layout of ward no 04. Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

Ram Sanjeev AE

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Construction of Samudaya Bhavan Building in GKVK layout of ward no 04.
Name of Agency	Sri. K. Ravi Kumar
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.13 X 150.11 X 150.0	22536	02/05/2016	30/05/2016	28	8.18	485	**21.56**	**21.85**
2		150.14 X 150.13 X 150.0	22541				8.19	490	**21.78**	
3		150.12 X 150.11 X 150.0	22535				8.21	500	**22.22**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Construction of Samudaya Bhavan Building in GKVK layout of ward no 04.
Name of Agency	Sri. K. Ravi Kumar
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-2	150.06 X 150.03 X 150.0	22514	02/05/2016	30/05/2016	28	8.21	500	**22.22**	**22.22**
2		150.04 X 150.05 X 150.0	22514				8.22	505	**22.44**	
3		150.02 X 150.04 X 150.0	22509				8.20	495	**22.00**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Construction of Samudaya Bhavan Building in GKVK layout of ward no 04.
Name of Agency	Sri. K. Ravi Kumar
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-2	150.08 X 150.07 X 150.0	22523	04/05/2016	01/06/2016	28	8.23	500	**22.22**	21.93
2		150.09 X 150.06 X 150.0	22523				8.21	485	**21.56**	
3		150.07 X 150.05 X 150.0	22518				8.22	495	**22.00**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Construction of Samudaya Bhavan Building in GKVK layout of ward no 04.
Name of Agency	Sri. K. Ravi Kumar
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-3	150.04 X 150.02 X 150.0	22509	02/05/2016	30/05/2016	28	8.19	495	**22.00**	**22.00**
2		150.06 X 150.04 X 150.0	22515				8.18	485	**21.56**	
3		150.05 X 150.03 X 150.0	22512				8.21	505	**22.44**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Construction of Samudaya Bhavan Building in GKVK layout of ward no 04.
Name of Agency	Sri. K. Ravi Kumar
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-4	150.12 X 150.11 X 150.0	22535	02/05/2016	30/05/2016	28	8.21	510	**22.67**	**22.30**
2		150.09 X 150.08 X 150.0	22526				8.19	495	**22.00**	
3		150.11 X 150.09 X 150.0	22530				8.20	500	**22.22**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Construction of Samudaya Bhavan Building in GKVK layout of ward no 04.
Name of Agency	Sri. K. Ravi Kumar
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-5	150.09 X 150.08 X 150.0	22526	02/05/2016	30/05/2016	28	8.21	495	**22.00**	**21.93**
2		150.07 X 150.05 X 150.0	22518				8.19	485	**21.56**	
3		150.06 X 150.07 X 150.0	22520				8.18	500	**22.22**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Construction of Samudaya Bhavan Building in GKVK layout of ward no 04.
Name of Agency	Sri. K. Ravi Kumar
Grade of Concrete	M-20
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.11 X 150.09 X 150.0	22530	04/05/2016	01/06/2016	28	8.22	495	**22.00**	**21.63**
2		150.12 X 150.13 X 150.0	22538				8.90	480	**21.33**	
3		150.13 X 150.14 X 150.0	22541				8.20	485	**21.56**	

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(KHUSHBOO L.)
Quality Manager

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Accredited by NABL as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027

Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer,
Yelahanka New Town Sub Division,
BBMP.

26th May 2016

Dear Sir,

Sub: Construction of Samudaya Bhavan Building in GKVK layout of ward no 04. Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

Ramsanjeev AE

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Construction of Samudaya Bhavan Building in GKVK layout of ward no 04.
Name of Agency	Sri. K. Ravi Kumar
Grade of Concrete	M-15
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.11 X 150.09 X 150.0	22530	28/04/2016	26/05/2016	28	8.19	354	15.73	15.82
2		150.09 X 150.08 X 150.0	22526				8.20	356	15.82	
3		150.07 X 150.06 X 150.0	22520				8.21	358	15.91	

Note:

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Construction of Samudaya Bhavan Building in GKVK layout of ward no 04.
Name of Agency	Sri. K. Ravi Kumar
Grade of Concrete	M-15
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-2	150.07 X 150.04 X 150.0	22517	28/04/2016	26/05/2016	28	8.21	356	15.82	15.64
2		150.08 X 150.06 X 150.0	22521				8.18	352	15.64	
3		150.09 X 150.11 X 150.0	22530				8.19	348	15.47	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP.
Name of Work	Construction of Samudaya Bhavan Building in GKVK layout of ward no 04.
Name of Agency	Sri. K. Ravi Kumar
Grade of Concrete	M-15
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-3	150.13 X 150.12 X 150.0	22538	28/04/2016	26/05/2016	28	8.21	360	16.00	15.79
2		150.14 X 150.13 X 150.0	22541				8.19	352	15.64	
3		150.11 X 150.12 X 150.0	22535				8.20	354	15.73	

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